## ABSTRACT OF THE DISCLOSURE

An optical module includes at least one optical fiber, a gradient index rod lens, and an optical element. The rod lens is placed at a position separated from an end surface of the optical fiber by a space. The optical element is separated from the rod lens. Outgoing light from the single optical fiber is inputted to the optical element via the rod lens, and light reflected by the optical element is coupled to the optical fiber via the rod lens. When a distance between the rod lens and the optical element is longer than a predetermined value, and a lens length optimized for the distance is equal to or less than a predetermined pitch, the rod lens has end surfaces perpendicular to an optical axis.